

Overall Expectations Students will:		R	1	2	3	4	Overall Strand
A - Rate of Change	1 - Demonstrate an understanding of rate of change by making connections between average rate of change over an interval and instantaneous rate of change at a point, using the slopes of secants and tangents and the concept of a limit						
	2 - Graph the derivatives of polynomial, sinusoidal, and exponential functions, and make connections between the numeric, graphical and algebraic representations of a function and its derivative						
	3 - Verify graphically and algebraically the rules for determining derivatives; apply these rules to determine the derivatives of polynomial, sinusoidal, exponential, rational, and radical functions, and simple combinations of functions; and solve related problems						
		R	1	2	3	4	Overall
B - Derivatives & Their Applications	1 - Make connections, graphically and algebraically, between the key features of a function and its first and second derivatives, and use the connections in curve sketching						
	2 - Solve problems, including optimization problems, that require the use of the concepts and procedures associated with the derivative, including problems arising from real-world applications and involving the development of mathematical models						
		R	1	2	3	4	Overall
C - Geometry & Algebra of Vectors	1 - Demonstrate an understanding of vectors in two-space and three-space by representing them algebraically and geometrically and by recognizing their applications						
	2 - Perform operations on vectors in two-space and three-space, and use the properties of these operations to solve problems, including those arising from real-world applications						
	3 - Distinguish between the geometric representations of a single linear equation or a system of two linear equations in two-space and three-space, and determine different geometric configurations of lines and planes in three-space						
	4 - Represent lines and planes using scalar, vector, and parametric equations, and solve problems involving distances and intersections						

Mid-term: _____ Term: _____ Summative: _____ Exam: _____

Note: Not all evaluations or expectations are equally weighted

Final Grade: _____